

Smart Antennas and Signal Processing : for Communications, Biomedical and Radar Systems

Paul R. Hoole

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This book provides a clear and simple treatment of antenna theory and applications, with added emphasis on signal processing and imaging. A common thread that runs throughout the text is the concept of modern antennas as temporal-spatial filters, devices that are capable of operating on signals in the time and spatial domains.

Many useful computer program listings are included so that undergraduates, graduates and practicing engineers can see how antennas work, learn to develop signal processing modules, and understand and visualize the design and implementation of smart antennas and complex (e.g. MRI and ISAR) imaging routines.

Unique in covering both traditional antenna theory, antennas in imaging systems and the most recent developments in adaptive antenna technology in depth, the book's main emphasis is on theoretical understanding and design. In addition, it contains practical insight into antenna troubleshooting, selection and installation.



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